# ASSIGNMENT - 03

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REACT

This presentation is about the usage of class in :

- Object ,
- •String,
- Boolean,
- Array

## Object:

```
import React, { useState } from 'react';
class ObjectComponent extends React.Component {
  constructor(props) {
    super(props);
   this.state = {
      user: {
        Name: 'Rochit R',
        age: 19,
     },
    // Binding the handleInputChange method to the current instance
    this.handleInputChange = this.handleInputChange.bind(this);
```

```
// Event handler to update the object state based on user input
 handleInputChange(event) {
    const { name, value } = event.target;
    this.setState((prevState) => ({
      user: {
        ...prevState.user,
        [name]: value,
     },
    }));
  render() {
    const { user } = this.state;
    return (
      <div>
        <label>
           Name:
          <input</pre>
            type="text"
            name="Name"
            value={user.Name}
            onChange={this.handleInputChange}
          />
        </label>
        <br />
```

```
Age:
         <input</pre>
           type="number"
           name="age"
           value={user.age}
           onChange={this.handleInputChange}
         />
       </label>
       <br />
       <div>
         User Information:
         First Name: {user.firstName}
         Last Name: {user.lastName}
         Age: {user.age}
       </div>
     </div>
export default ObjectComponent;
```

<label>

### String:

```
import React, { useState } from 'react';
class StringComponent extends React.Component {
 constructor(props) {
    super(props);
    this.state = {
      stringValue: 'Initial Value',
    this.handleInputChange = this.handleInputChange.bind(this);
  handleInputChange(event) {
   this.setState({
      stringValue: event.target.value,
    });
```

```
render() {
    return (
      <div>
        <label>
          Input String:
          <input</pre>
            type="text"
            value={this.state.stringValue}
            onChange={this.handleInputChange}
          />
        </label>
        Current String Value: {this.state.stringValue}
      </div>
```

export default StringComponent;

#### Boolean

```
import React, { useState } from 'react';
class BooleanComponent extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      isToggleOn: false,
    this.handleClick = this.handleClick.bind(this);
  handleClick() {
    this.setState((prevState) => ({
      isToggleOn: !prevState.isToggleOn,
    }));
```

```
render() {
    return (
      <div>
       Toggle State: {this.state.isToggleOn ? 'On' :
'Off'}
        <button onClick={this.handleClick}>
          {this.state.isToggleOn ? 'Batman' : 'Joker'}
        </button>
      </div>
export default BooleanComponent;
```

## Array

```
import React, { useState } from 'react';
class ArrayComponent extends React.Component {
  constructor(props) {
    super(props);
   this.state = {
      items: ['Item 1', 'Item 2', 'Item 3'],
     newItem: '',
    };
   this.handleInputChange = this.handleInputChange.bind(this);
   this.handleAddItem = this.handleAddItem.bind(this);
  handleInputChange(event) {
   this.setState({
     newItem: event.target.value,
    });
```

```
handleAddItem() {
   this.setState((prevState) => ({
     items: [...prevState.items, prevState.newItem],
     newItem: '',
   }));
render() {
   const { items, newItem } = this.state;
   return (
     <div>
       <l
         {items.map((item, index) => (
           {item}
         ))}
       <label>
         New Item:
```

```
<input</pre>
            type="text"
            value={newItem}
            onChange={this.handleInputChange}
          />
        </label>
 <button onClick={this.handleAddItem}>Add Item</button>
      </div>
export default ArrayComponent;
```

